

000 Rural and town populations there is a constant proportion of two to one. The average distance between "dorps" (villages with a population of some 2000) is 72 miles, and each dorp serves an average area of 2696 square miles. In contrast, a population center of about the same size in the canton of Zurich serves an average area of only 20 square miles. The wide-mesh distribution and great distances between central services are both costly and inconvenient and are only partly offset by the fact that every farm is able to supply its working population with essential foods such as corn and with tobacco. The present trend in the Kartoos is a scientific attempt to adapt the economy more closely to the environment.—DONALD R. PETERSON

ASIA

000 OIL AND THE EVOLUTION OF BOUNDARIES IN EASTERN ARABIA. Since my research for the paper on the "Political Geography of Trucial 'Oman and Qatar" (*Geogr. Rev.*, Vol. 43, 1953, pp. 194-206) was completed, hopes for the discovery of oil have led to further developments in the evolution of states and boundaries in eastern Arabia.

648 In Trucial 'Oman the maritime truces and treaties with Great Britain oblige the
624 sheikhs (the so-called "Trucial sheikhs") to enforce the agreements (for example, sup-
131 pression of slave trade) in their own territories. In the neutral areas of Trucial 'Oman no
631 Trucial sheikh has any authority, yet Great Britain cannot enforce the treaties either, for
they leave all affairs on land exclusively in the hands of the sheikhs. These shortcomings, particularly significant today in matters of oil concessions and development, have caused the abandonment of the concept of neutral areas in Trucial 'Oman. Such areas are now considered to be part of the territory of one or another of the Trucial sheikhs, who are thus able to exercise their authority. For similar reasons the Trucial sheikhdom of Kalba, the subject of many disputes, is no longer recognized; its former territory is now parceled among other Trucial sheikhdoms. The sheikhdom of Fujaira, which effectively occupies an area near the Gulf of 'Oman, has now been elevated to Trucial rank, with all rights and obligations. As the result of these developments, political conditions in Trucial 'Oman are much more stable today than ever before. This fact in itself, independent of the discovery of oil, may account for recent economic growth. The accompanying table summarizes some of the recent changes in the seven Trucial sheikhdoms of 'Oman. Additional information, particularly for the guidance of travelers, is available in the "Handbook on the Persian Gulf" published by the British Foreign Office (1953). No demarcation of boundaries between Trucial sheikhdoms has yet been reported, and since the basic political relations between the sheikhs remain the same, war may flare up at any time, though in view of the recent economic changes this is believed to be less likely than before.

101 With the abandonment of the concept of neutral areas in Trucial 'Oman, six villages
631 of the oasis—or, rather, group of oases—called Buraimi (Muwaiqih, Mataradh, Al Ain,
648 Jimi, Qattara, and Hilli), inhabited by the Abu Falah tribe, are now considered to be, and are administered as, a part of Abu Dhabi. The village of Buraimi, inhabited by the Naim tribe, which is reported to graze its herds to the east of the oasis, is part of the Sultanate of Muscat and 'Oman, and thus outside Trucial 'Oman. The remaining village of the oasis, Hamasa, inhabited by the Bu Sham tribe (also reported to graze its herds southeast of the oasis), is occupied by Saudi Arabia (see Melamid, *op. cit.*, p. 204, footnote 23) and claimed

↑[see p. 296--Analyst]

TABLE I—SUMMARY OF CHANGES IN TRUCIAL SHEIKHDOMS

TRUCIAL SHEIKHDOM	RECENT CHANGES
101 315 471 ABU DHABI	The largest Trucial sheikhdom, territorially better consolidated than before. Prospecting for oil proceeds on land; oil, of a better quality than the other Arabian oils, has been discovered at Murban (about 23° 50' N. and 53° 45' E.), but the full significance of the discovery has not yet been evaluated. A new oil concession, to last 65 years, for the offshore subsurface rights in the Persian Gulf, as defined in the 1952 arbitration award, was granted to a combination of British (Anglo-Iranian Oil Company) and French companies in March, 1953; the area is described as exceeding 12,000 square miles (no information has been released to show how this figure was calculated); under the terms of the concession, exploration must begin within a year, and drilling within five years.
361 178 162 DIBAI	The town of Dibai is expanding rapidly; its population is now estimated at 38,000. Two commercial banks and a hospital have been established, and there are regular bimonthly mail-steamer connections with Iraq and India. In view of the growth of Dibai, the headquarters of the British Political Agent for Trucial 'Oman are being transferred there from Sharjah. An offshore concession described as covering 1300 square miles was granted in August, 1952, to the same group of companies that have obtained the Abu Dhabi offshore concession; the terms also are the same, except that the duration is limited to 60 years. Drilling to 12,000 feet has produced no oil so far.
[508] SHARJAH	Probably now the second largest of the Trucial sheikhdoms; includes the inland oasis of Dhaid and the town of Kalba, on the Gulf of 'Oman. The aerodrome near the town of Sharjah is served by three flights a week from Bahrain, the only regular air service to Trucial 'Oman.
AJMAN	No change.
UMM AL QAIWAIN	" "
RAS AL KHAIMA	" "
FUJAIRA	Trucial sheikhdom since 1952; economically unimportant.

101
631
642
by the Sultan of Muscat and 'Oman. After some skirmishes between the troops of Saudi Arabia and British-officered Trucial 'Oman levies, a standstill agreement, similar to the Palestine armistice agreements, was reached, which stabilized for the time being the positions occupied by the various states and armies. Owing to the location of Hamasa between the other villages of the oasis, this standstill agreement has resulted in some form of blockade of the forces of Saudi Arabia there; Saudi Arabian efforts to supply Hamasa have led to further bloodshed and complaints to the United Nations. Since the oasis of Buraimi contains the only sizable wells in the eastern Rub' al Khali desert, possession of, and free access to, all or parts of it is important to anyone who desires to rule, and exploit the minerals of, the Empty Quarter of Arabia. Several suggestions for amicable settlement or arbitration of the dispute have been made, particularly by the new King of Saudi Arabia (*New York Times*, Nov. 11, 1953). In view of the importance of the oasis, definite boundaries between Saudi Arabia, Trucial 'Oman, the Sultanate of Muscat and 'Oman (in whose Dhofar region a group of American oil companies has a concession), and possibly Aden Protectorate may now be established, though the process of definition would take some time. All the oil companies operating in the states concerned have announced their agreement to any new boundaries that may be drawn.—ALEXANDER MELAMID

PHYSICAL GEOGRAPHY

000 ARID ZONE RESEARCH. "Reviews of Research on Arid Zone Hydrology" (Paris, 1953) is the first fruit of UNESCO's Arid Zone Programme, which had its beginning in 1948. For study purposes the arid lands of the world were divided into eight regions—